

Please add Claims 23 and 24 as follows:

23. A method for monitoring and controlling quality of a paper web as the paper web is being manufactured, comprising:

conveying the paper web through a paper machine where the paper web is formed as part of a manufacturing process and thereafter treating the paper web by subjecting the paper web to a treatment process;

imaging the paper web with a thermal camera in real time as the paper web is manufactured;

analyzing images from the thermal camera in real time as the images are captured by the thermal camera to detect defects in the paper web based on the images; and

adjusting in real time at least one of the manufacturing process and the treatment process for the paper web based on the detected defects determined from the images.

24. A method for monitoring and controlling quality of a paper web as the paper web is being manufactured, comprising:

conveying the paper web through a paper machine where the paper web is formed as part of a manufacturing process and thereafter treating the paper web by subjecting the paper web to a treatment process;

imaging the paper web with a thermal camera as the paper web is manufactured;

analyzing images from the thermal camera as the images are captured by the thermal camera;

detecting defects in the paper web directly from the images as they are captured such that there is not a requirement to store the images for later analysis; and

adjusting at least one of the manufacturing process and the treatment process for the paper web based on the detected defects determined from the images in said detecting step.